

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all previous claims, and listings of claims, in the application.

Claim 1-11 (Cancelled).

Claim 12 (Currently Amended): A polymer electrolyte fuel cell including a member made of a nickel-base wrought alloy comprising, wherein the nickel-base wrought alloy comprises, by mass, more than 43% and not more than 50% chromium, 0.1 to 2% molybdenum, 0.001 to 0.05% magnesium, 0.001 to 0.04% nitrogen, 0.05 to 0.5% manganese, and both of 0.05 to 1.0% iron and 0.01 to 0.1% silicon, with the balance being nickel and inadvertent impurities, the amount of carbon included in the alloy as inadvertent impurities being not more than 0.05%.

Claims 13-36 (Cancelled).

Claim 37 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a structural member for a the polymer electrolyte fuel cell, which member is made of the nickel-base alloy according to claim 12.

Claim 38 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a manifold member for a the polymer electrolyte fuel cell, which member is made of the nickel-base alloy according to claim 12.

Claim 39 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a pipe member for a the polymer electrolyte fuel cell, which member is made of the nickel-base alloy according to claim 12.

Claim 40 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a fastener member for a the polymer electrolyte fuel cell, which member is made of the nickel-base alloy according to claim 12.

Claim 41 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a support plate member for a the polymer electrolyte fuel cell, which member is made of the nickel-base alloy according to claim 12.

Claim 42 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a separator member for a the polymer electrolyte fuel cell, which member is made of the nickel-base alloy according to claim 12.

Claim 43 (Currently Amended): A polymer electrolyte fuel cell according to Claim 12, wherein the member is a wrought product which is produced by melting, casting and hot-rolling the nickel-base wrought alloy, in this order according to Claim 12.

Claim 44 (Currently Amended): ~~The wrought product~~ A polymer electrolyte fuel cell according to Claim 43, wherein the wrought product is at least one selected from a group consisting of a structural member, a manifold member, a pipe member, a fastener member, a support plate member and a separator member of a polymer electrolyte fuel cell.

Claim 45 (Currently Amended): ~~The nickel-base alloy according~~ A polymer electrolyte fuel cell according to Claim 12, wherein the content of molybdenum is more than 0.9% and not more than 2% by mass.

46. (New): A polymer electrolyte fuel cell according to Claim 12, wherein the fuel cell comprises plural unit cells which have a solid electrolyte membrane, a first platinum catalyst, a second platinum catalyst, a hydrogen electrode and an oxygen electrode;

the first platinum catalyst is provided on one side of the solid electrolyte membrane, and the second platinum catalyst is provided on the other side of the solid electrolyte membrane; and

the hydrogen electrode is provided outside of the first platinum catalyst, and an oxygen electrode is provided outside of the second platinum catalyst.

47. (New): A polymer electrolyte fuel cell according to Claim 46, wherein the solid electrolyte membrane is a membrane wherein sulfonation treatment or fluorination treatment is conducted.

48. (New): A polymer electrolyte fuel cell according to Claim 46, wherein the fuel cell further comprises a manifold, which receives water generated on the oxygen electrode side of the solid electrolyte membrane, a pipe which passes the water from the manifold to a pump, and the pump which feeds the received water to the hydrogen electrode side of the solid electrolyte membrane.

49. (New): A polymer electrolyte fuel cell according to Claim 46, wherein the plural unit cells are stacked together with intervening separators, and support plate and fasteners are also used for stacking the unit cells.

50. (New): A polymer electrolyte fuel cell according to Claim 12, wherein the nickel-base wrought alloy has the amount of leached metal ions per unit surface area of:

0.29 or less when it is placed in 1,000 ppm H_2SO_4 solution for 500 hours at 80°C;

0.10 or less when it is placed in 500 ppm H_2SO_4 solution for 500 hours at 80°C;

1.10 or less when it is placed in 500 ppm HF solution for 500 hours at 80°C; and

0.38 or less when it is placed in 50 ppm HF solution for 500 hours at 80°C.